FORESTRY

THE JOURNAL OF THE SOCIETY OF FORESTERS
OF GREAT BRITAIN

Edited by R. W. V. Palmer

VOLUME XL

PUBLISHED BY THE
OXFORD UNIVERSITY PRESS
ELY HOUSE, W. 1
1967

PAST PRESIDENTS

1926 to 1928	R. L. ROBINSON	1948 and 1949	O. J. SANGAR
1929 and 1930	JOHN D. SUTHERLAND	1950 and 1951	H. M. STEVEN
1931 and 1932	R. S. PEARSON	1952 and 1953	A. H. GOSLING
1933	W. DALLIMORE	1954 and 1955	W. E. HILEY
1934 and 1935	SIR ALEXANDER RODGER	1956 and 1957	A. P. LONG
1936	SIR FRANCIS ACLAND	1958 and 1959	SIR HARRY CHAMPION
1937 and 1938	W. L. TAYLOR	1960 and 1961	E. C. MOBBS
1939 to 1944	W. A. ROBERTSON	1962 to 1965	J. A. B. MACDONALD
1945 to 1947	W. H. GUILLEBAUD		

THE COUNCIL. The affairs of the Society are managed by a Council which shall consist of the President, Vice-President, the immediate Past President, Editor and Business Editor, all *ex officiis*, together with ten other members of whom five shall be Fellows, three Associates, one a Professional Member and one an Affiliated Member. Office Bearers and Councillors are selected by written nomination and postal ballot.

LIST OF OFFICE BEARERS 1966–7 AND COUNCILLORS 1965–8

President: J. MAXWELL MACDONALD, B.A., of Largie, Tayinloan, Argyll.

Vice-President: M. J. PENISTAN, M.A. For. (Oxon.), Forestry Commission, Flowers Hill, Brislington, Bristol, 4.

Editor of Journal: R. W. V. PALMER, O.B.E., B.A. Dip.For., Eastnor Hill Cottage, Eastnor, Ledbury, Herefordshire.

Business Editor: H. L. EDLIN, B.SC., 25 Savile Row, London, W.1. Tel. REGENT 0221.

Secretary and Treasurer: J. J. LAWRIE, 51 Colcokes Road, Banstead, Surrey. Tel. BURGH HEATH 50606.

Auditors: MIELL AND CO., 57 High Street, Oxford.

Councillors: while immediate Past President, J. A. B. MACDONALD; *retire in* 1967 *but eligible for re-election,* P. F. GARTHWAITE, W. E. S. MUTCH, J. H. B. WORKMAN (*Associates*), R. SCRUTON (*Professional Member*), and J. M. A. YERBURGH (*Affiliated Member*). *Retire in* 1968 *but eligible for re-election,* G. B. RYLE, Professor M. V. LAURIE, G. E. H. PALMER, Sir HENRY BERESFORD-PEIRSE, *and* J. E. GARFITT.

© *Oxford University Press,* 1967

PRINTED IN GREAT BRITAIN AT THE UNIVERSITY PRESS, OXFORD
BY VIVIAN RIDLER, PRINTER TO THE UNIVERSITY

CONTENTS

Number 1

Fort William (with Frontispiece, Plates I and II)
Excursion to Norway—Changes in France—Economic Surveys of Private Forestry—The British Association 1

Planning for Extraction of Pulpwood and Logs by Cableways (with Plate III). A. G. BRAMWELL 7

Forestry and the Landscape. J. D. MATTHEWS 15

Forestry on the Boulder Clay. I. *Silvicultural and Economic Problems*. S. R. PAYNE and G. W. BACKHOUSE 21

Forestry on the Boulder Clay. II. *The Peterborough Meeting, September 1966*. DEREK HARRISON 29

Silviculture of the Spruces in West Scotland. E. J. M. DAVIES 37

Spacing in Plantations. *A Management Investigation*. P. A. WARDLE 47

Forestry in Norway. M. G. HARKER 70

Dieback Disease of Pines with Special Reference to Corsican Pine *Pinus nigra* var *Calabrica* Schn. II. *The Relationship between Frost Resistance, Microclimate and Disease*. D. J. READ 83

REVIEWS

CYRIL E. HART. *Royal Forest. A History of Dean's Woods as Producers of Timber*. T. E. EDWARDSON 98

S. D. RICHARDSON. *Forestry in Communist China*. T. H. WOOLRIDGE 100

C. G. JOHNSON and L. P. SMITH (editors). *The Biological Significance of Climatic Changes in Britain*. W. A. FAIRBAIRN 102

P. V. VASILYEV (ed.), I. V. VORONIN, G. P. MOTOVILOV, and E. YA. SUDACHKOV. *Economics of the Forestry Industry in the USSR*. JAN J. SOLECKI 103

W. LINNARD. *Russian-English Forestry and Wood Dictionary*. A. J. GIBSON 104

JOHN F. GRIFFITHS. *Applied Climatology. An Introduction*. W. A. FAIRBAIRN 105

CORRESPONDENCE

Soils, Forests and Pastures in South Wales. D. G. PYATT and C. B. CRAMPTON 107

HONOUR

M. V. EDWARDS 109

OBITUARY

H. L. WRIGHT 109

CONTENTS (*continued*)

Number 2

Wind
Excursion to Norway—Nancy reborn?—TRADA—Local Activity—The Society's Medal—Silvicultural Prize—Forestry Exhibition—Director General, Forestry Commission—*Erratum*. 111

Timber Improvement. I. *A Study of the Variation in Wood Characteristics in Young Sitka Spruce*. J. D. BRAZIER 117

Norway or Sitka Spruce? J. A. B. MACDONALD 129

Some Aspects of the Growth and Spread of Fire in the Open. P. H. THOMAS 139

Rainfall Interception by Beech, Larch, and Norway Spruce. E. R. C. REYNOLDS and C. S. HENDERSON 165

Studies on *Ulmus*. VII. *Essex Elms*. R. H. RICHENS 185

Movement of Injected Dyes in Gymnosperm Stems in Relation to Tracheid Alignment (with Plates IV to VII). T.T. KOZLOWSKI, J. F. HUGHES, and L. LEYTON 207

Growing Broadleaved Trees in Mixture with Conifers. G. V. DARRAH and J. W. DODDS 220

REVIEWS

V. V. RAKHMANOV. *Role of Forests in Water Conservation*. L. LEYTON 229

WILLIAM E. SOPPER and HOWARD W. LULL (editors). *International Symposium on Forest Hydrology*. E. R. C. REYNOLDS 230

H. D. GERHOLD, E. J. SCHREINER, R. E. MCDERMOTT, J. A. WINIESKI (editors). *Breeding Pest-Resistant Trees*. D. H. PHILLIPS 232

CORRESPONDENCE

Edge Effect. S. A. NEUSTEIN 234

11
17
29
39
165
185
207
220
229
230
232
234